U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Panerwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute	e for form 1449A/PTO				Complete if Known	
INFO	ORMATION	i ni	SCLOSURE	Application Number		
			PPLICANT	Filing Date		
SIA	I ENIENI D	IA	HILICANI	First Named Inventor	Detering et al	
				Group Art Unit	Unknown	
	(use as many she	eis as	necessary)	Examiner Name	Unknown	
Sheet	I i	of	4	Attorney Docket Number	EGG-PI-413A RE	/

Examiner Initials *	Cite No.1	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
3K		3,051,639	08/1962	Anderson	
1		3,123,464	03/1964	Casey et al.	
		1 3,211,548	10/1965	Scheller et al.	
		3,408,164	10/1968	Johnson	
		3,429,691	02/1969	McLaughlin	
		3,630,718	12/1971	Newenschwander	
		3,738,824	06/1973	Davis et al.	
\mathbf{L}_{-}	l	3,840,750	10/1974	Davis et al.	
		3,914,573	10/1975	Muehlberger	
		3,954,954	- 05/1976	Davis et al.	
		3,992,193	11/1976	Fey et al.	
		4,022,872	05/1977	Carson et al.	
		4,080,194	03/1978	Fey	
		4,107,445	08/1978	Wolf et al.	
	L	4,145,403	03/1979	Fey et al.	
	1	4,146,389	03/1979	Karlovitz	\\
		4,164,553	08/1979	Perugini et al.	
SK		4,335,080	06/1982	Davis et al.	· · ·

	7		ATENT DOCU				
Examiner	Cite	Foreign Patent Document		Name of Patentee or	Pages, Columns, Lines,		
Initials*	No.1	Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T ⁶	
SY		JP 30-7408	10/15/1955	Ishizuka			
1		DE/DD I 142 159	01/10/1963	Harnisch et al.			
		JP 38-6854	05/23/1963	Waku			
T		SU 322960	01/05/1975	Mil'ko et al.			
		FR 2 341 389	09/16/1977	Perugini et al.			
		SU 223055	06/15/1982	Chesnokov et al.			
		FR 2 603 209	03/04/1988	Serole			
		DD 269 157 A1	06/21/1989	Hoffmann et al.			
1		GB 2 217 699 A	11/01/1989	Egerton et al.			
		DD 293 704	09/05/1991	Dummersdorf et al.			
SK		GB 2 279 009 A	12/21/1994	Briquet			

_			
Examiner Signature	S. Kastler	Date Considered	9-05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

¹ Applicant's unique citation designation number (optional) . ² See Kinds Codes of USPTO Patent Documents at www.uspto.gox or MPEP 901.04.
³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

)))	
180	
CE	\neg

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Panerwork Reduction Act of 1995, no persons are remined to resound to a collection of information unless it contains a valid OMB control number.

Substitute (Substitute for form 1449A/PTO			Complete if Known	
INFO	RMATION	DIS	SCLOSURE	Application Number	
	= :		PPLICANT	Filing Date	
SIAI	ENERI D	1 71.	I DICANI	First Named Inventor	Detering et al
				Group Art Unit	Unknown
	(use as many she	eis as i	ecessary)	Examiner Name	Unknown
Sheet	2	of	4	_Attorney Docket Number _	EGG-PI-413A RE

			U.S. PATENT D	OCUMENTS	· · · · · · · · · · · · · · · · · · ·
Examiner Initials •	Cite No.	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Cohmuns, Lines, Where Relevant Passages or Relevant Figures Appear
SIC	<u> </u>	4,347,060	08/1982	Blizzard et al.	N
	<u>l</u>	4,356,029_	10/1982	Down et al.	
	<u></u>	4,410,358	10/1983	Heshmatpour	
	<u> </u>	4,561,883	12/1985	Muliner et al.	
	L	4,610,718	09/1986	Araya et al.	
		4,612,045	09/1986	Shintaku	
	<u> </u>	4,731,111	03/1988	Kopatz et al.	
	<u> </u>	4,762,756	08/1988	Bergmann et al.	
	<u> </u>	4,772,315	09/1988	Johnson et al.	
	<u> </u>	4,783,216	11/1988	Kemp et al.	
	<u> </u>	4,801,435	01/1989	Tyiko	
	<u> </u>	4,851,262	07/1989	McFeaters	
	<u> </u>	4,875,810	10/1989	Chiba et al.	
L_		4,891,066	01/1990	Shimotori et al.	
		4,909,914	03/1990	Chiba et al.	
		4,911,805	03/1990	Kenji et al.	
		5,017,754	05/1991	Drouet et al.	
SIC		5,028,417	07/1991	Gulguhji et al.	

Examiner	Cite	Foreign Patent Document	_ _	Name of Patentee or	Pages, Columns, Lines,	
Initials*	No.	Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T ⁶
	 	<u> </u>			 	
			 		 	
			 	- 	 	
	 -				 	
	 	 	 		 	

Examiner Signature	S. KasHer	Date Considered	9-05

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at <u>www.uspto.gox</u> or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Approved for use through 10/31/2002, OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

		Under the P	anerwork Reduction Act of 1995.	no persons are remained to respond to a co	ellection of information unless it contains a valid OMB contro	d march
Substitu	ute for form 1449	a/PTO			Complete if Known	
INF	ORMAT	TION D	ISCLOSURE	. Application Number		
	Substitute for form 1449A/PTO INFORMATION DISCLOSUR STATEMENT BY APPLICAN		Filing Date			
DIA	a i isiviisi	I DI A	MI I DICANI	First Named Inventor	Detering et al	
				Group Art Unit	Unknown	
	(use as n	any sheets a	s necessary)	Examiner Name	Unknown	
Shane	1 2	ء ا			FGC N. 4124 P.F.	

Examiner Initials •	Cite No.	Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
SIL		5,062,936	11/1991	Beaty et al.	Figures Appear
1	1	5,073,193	12/1991	Chaklader et al.	\
7		5,194,128	03/1993	Beaty et al.	1
		5,215,749	06/1993	Nicoll et al.	
		5,257,500	-11/1993	Kattalaicheri et al.	
<u> </u>		5,294,242	03/1994	Zurecki et al.	
	L	5,749,937	05/1998	Detering et al.	
 	ļ	5,788,738	08/1998	Pirzada et al.	
	<u> </u>	5,851,507	12/1998	Pirzada et al.	
L	<u> </u>	5,935,293	08/1999	Detering et al.	
ςL		6,379,419	04/2002	Celik et al.	
				·	

Examiner Initials*	Cite	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or	Pages, Columns, Lines,	T ^e
	No.1	Country Code ³ - Number ⁴ - Kind Code ³ (if known)		Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	
				·	·	
	•					

Examiner Signature	S. Kastler	Date Considered	9/05

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at work uspita gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ³ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Approved for use through 10/31/2002, OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Index the Properties Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control marrhe

_		Uild	ci dic raq	A WORK REDUCEMENT AND OF 1775, I	o possibilitari de la composibilitari de la constanta	AND OF THE CHIEF OF THE PARTY IS CONTINUED IN VALUE COUNTY OF THE PARTY OF THE PART	
Substitute for form 1449A/PTO					Complete if Known		
				~~~	Application Number		
INFORMATION DISCLOSURE					Filing Date		
STATEMENT BY APPLICANT				PPLICANT	First Named Inventor	Detering et al	
					Group Art Unit	Unknown	
(use as many sheets as necessary)				necessary)	Examiner Name	Unknown	
て	Sheet	۸	O£.	Δ	Attomay Docket Number	EGG PL 413A ro	

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T 2
Sh		McFeaters, J., et al., Application of Nonequilibrium Gas-Dynamic Techniques to the Plasma Synthesis of Ceramic Powders, VCH Publications, 1990, Chapter 46, pp. 431-446.	
V		Krasnov et al., Low Temperature Plasma in Metallurgy No Parー	
0		Zvetkov, J.V., et al., Low Temperature Plasma Used in Recovery Processes, Section 6, Academy of Science of the USSR, Institute of Metallurgy Named After A.A. Baikov N. O.L.	
C		Down, M.G., Titanium Production by a Plasma Process, Final Technical Report, Materials Laboratory, Air Force Wright Aeronautical Laboratories (#AD A 121892), May 1982, pp. 1-8.	
K		"The INEL Plasma Research Program," Idaho National Engineering Laboratory (BP422E-R0592-1M-T), May 1992.	
		·	

Examiner	SKartle	Date	10/0 5
Signature	3. Nasite	Considered	(9/3/3

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

¹ Unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.